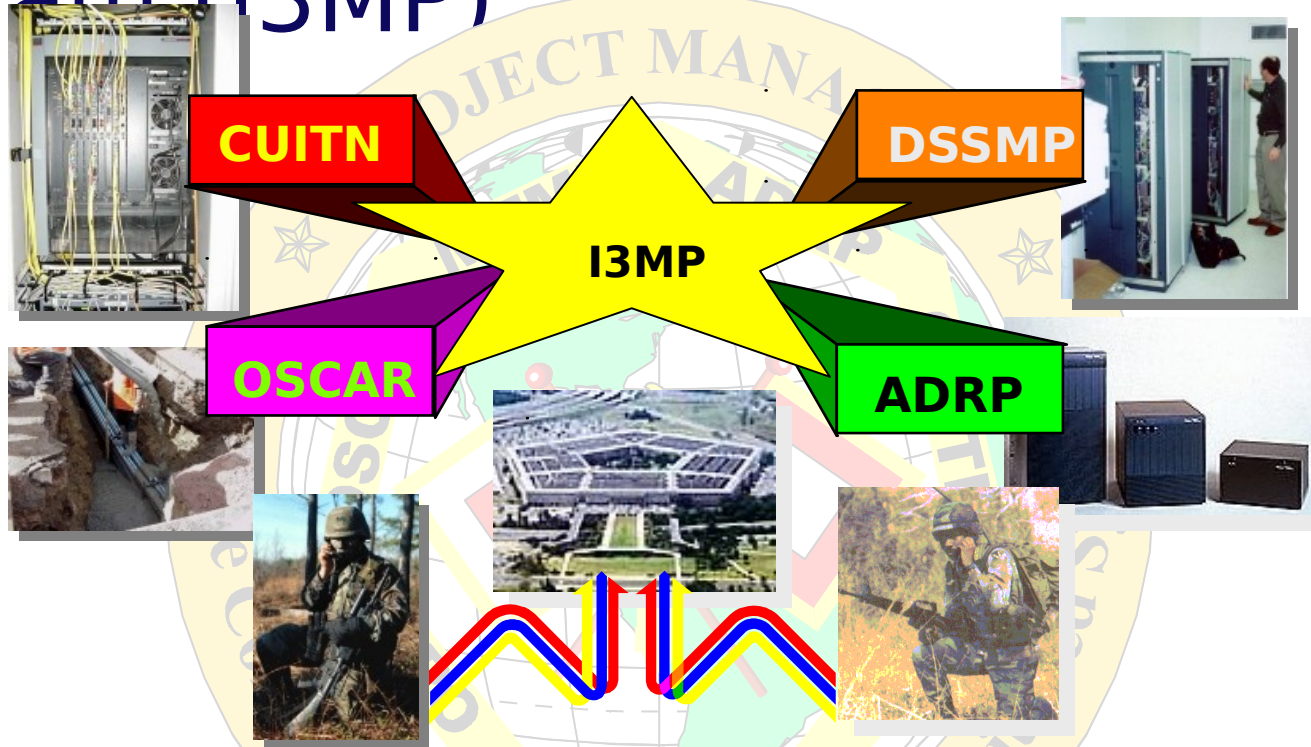


Installation Information Infrastructure Modernization Program (I3MP)



**MCA Joint Standing Committee Meeting
11 June 2002**

**Mr. Eric Swenson, Deputy Product Manager
Digital Switched Systems Modernization
Program (DSSMP)**

COMM: 732-532-7911 / DSN: 992-7911



PM DCASS Organization



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**Project Manager, Defense Communications and Army
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**Chief Mr. T.
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(DDN)**

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(OSCAR)**

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**DIGITAL
SWITCHED SYS
MODERNIZATION
PROGRAM
(DSSMP)**

**PDM LTC D. S.
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**Defense
Communication
s
Systems
Europe
(DCSE)**

PM DCASS Mission



MISSION

Acquire and sustain upgrades/modernization of installation voice data networks.

PROGRAMS

- Installation Information Infrastructure Modernization Program (I3MP) contains four sub-elements providing infrastructure:
 - Digital Switched Systems Modernization Program (DSSMP)
 - Outside Cable Rehabilitation (OSCAR) Program
 - Common User Installation Transport Network (CUITN)
 - Army DISN Router Program (ADRP)
- Defense Information Systems Network - Europe (DISN-E)
- I3MP OCONUS
- Customer funded voice/data projects

CHARACTERISTICS/DESCRIPTION

- DSSMP provides voice switching systems with the latest commercially available technology.
- OSCAR provides for critical distribution cable repair and replacement due to age, fill, degraded service, insufficient service, and intensive maintenance.
- CUITN provides common user backbone Campus Area Networks (CAN).
- ADRP provides connectivity into the Top Level Architecture (TLA) which connects to the Defense Information Systems Network (DISN) wide area network (WAN).
- DISN-E replaces existing European Telephone System with new digital voice switches and network management system.
- I3MP OCONUS provides voice/data network infrastructure and services in the Pacific and European theaters.

CAPABILITY / IMPROVEMENTS

I3MP/ DISN-E supports the deployed commander by upgrading the capacity and reliability of the installed voice and data infrastructure and by enhancing connectivity between forward deployed and stay behind forces (split base and reach back requirements). It supports installation communications during

readiness training and mobilization for sustaining base and for

tactical and strategic systems that operate within the confines

of the installation. I3MP is a critical enabler for Army Knowledge Management (AKM)

Siemens

Telecom Italia

General Dynamics WTS

Harris

Southwestern Bell

EPS

Verizon

Northrop Grumman

Lucent Technologies

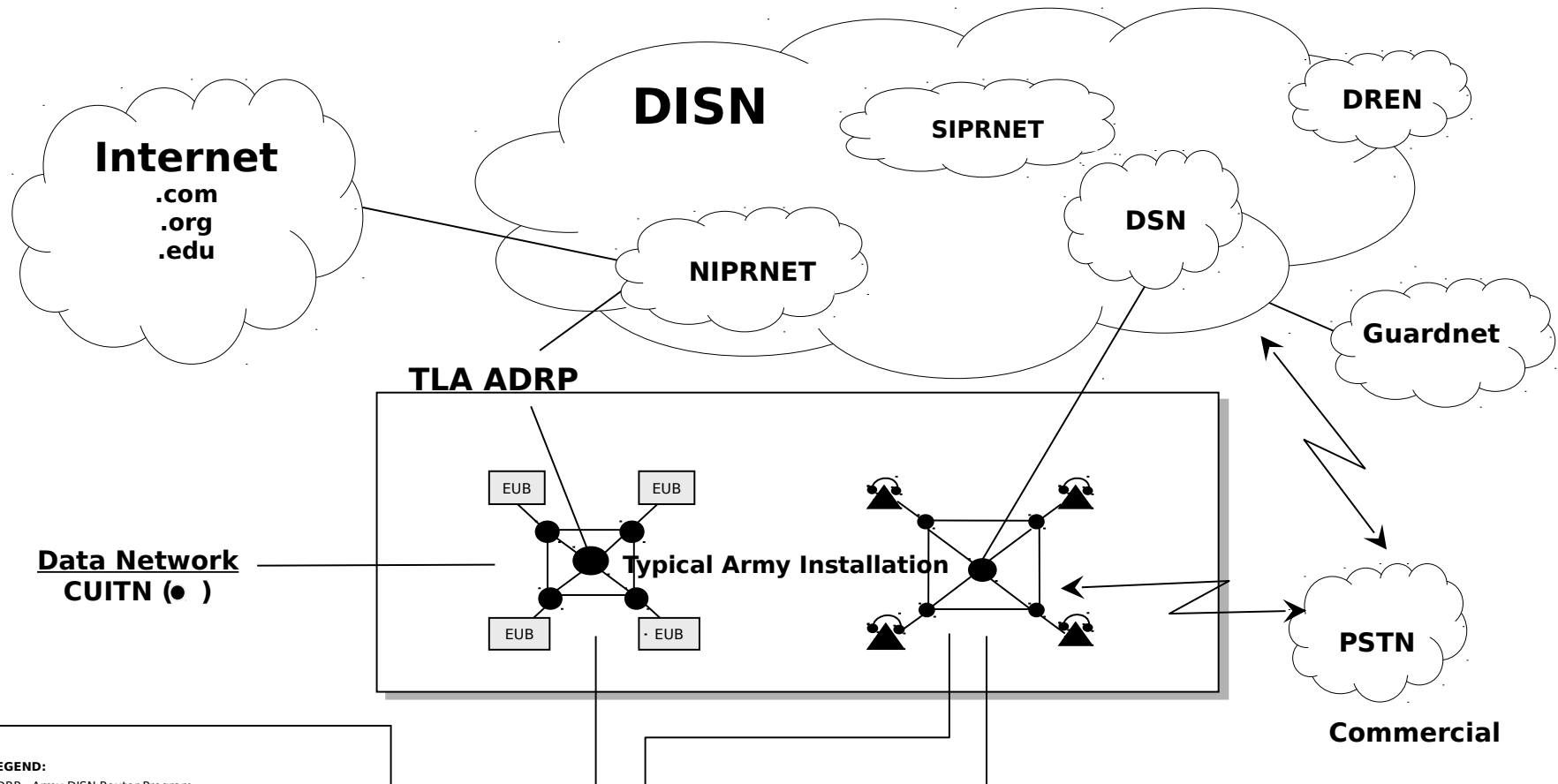
Avaya

NextiraOne

Nortel Networks

Halifax

Data & Voice Information Infrastructure



LEGEND:

ADRP - Army DISN Router Program
 DISN - Defense Information Systems Network
 DISN-E - Defense Information Systems Network - Europe
 DREN - Defense Research & Engineering Network
 DSSMP - Digital Switched Systems Modernization Program
 DSN - Defense Switch Network
 EUB - End User Building
 ISDN - Integrated Services Digital Network
 NIPR - Non-secure Internet Protocol Router Network
 PSTN - Public Switch Telephone Network
 SIPR - Secret Internet Protocol Router Network
 TLA - Top Level Architecture
 VTC - Video Teleconferencing
 Guardnet - National Guard Data Network

Fiber & Copper Cabling Voice Network (DSSMP / DISN-E)
OSCAR (/)

Voice Switch Nodes ()

Fax
 Data
 ISDN
 VTC

Environment



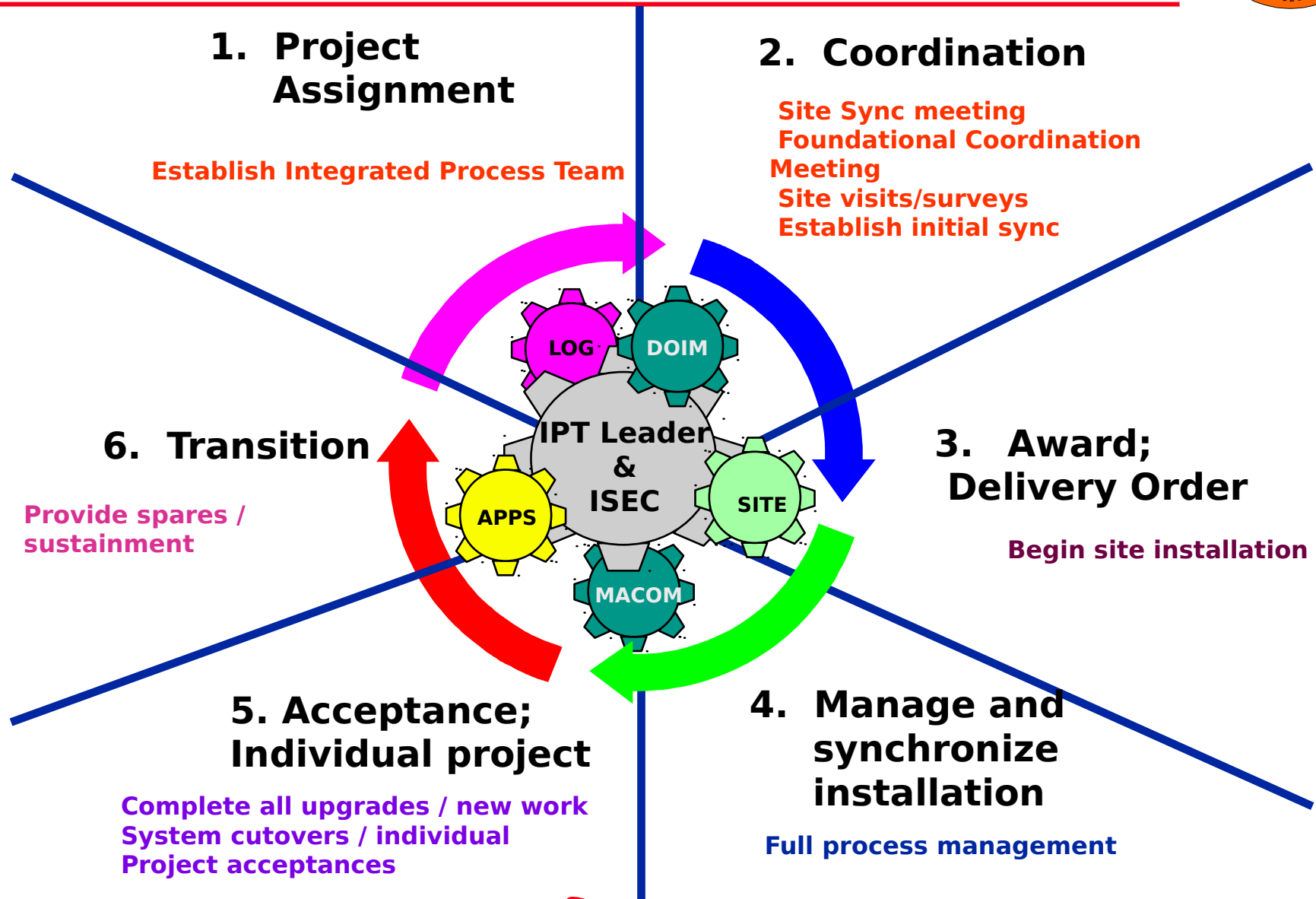
- COTS / Modified COTS
- Multiple Prime Contractors and Equipment Manufacturers
- Evolving Technology
- Interoperability/Configuration Management
- Sources of Funding:
 - DOD Agencies/Services
 - DA Program
 - MCA (Customer Provided)
 - MACOM

Acquisition Approach



- DSSMP ID/IQ Contracts
- Commercial Off The Shelf / Modified COTS
- State of the Art Equipment
- 'Secondary' Competition – Best Value Awards
- Joint Awards (CUITN / OSCAR)
- Bundled Sites
- Design Engineering
 - Government
 - Contractor

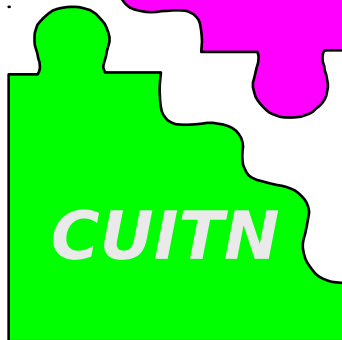
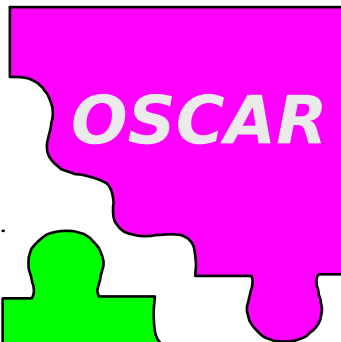
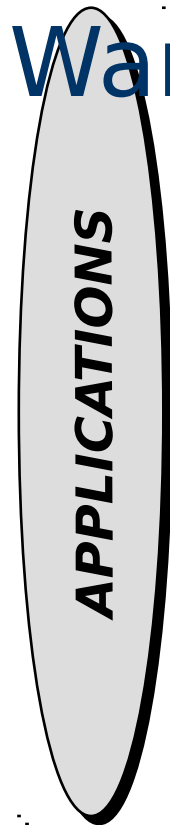
How We Do Business



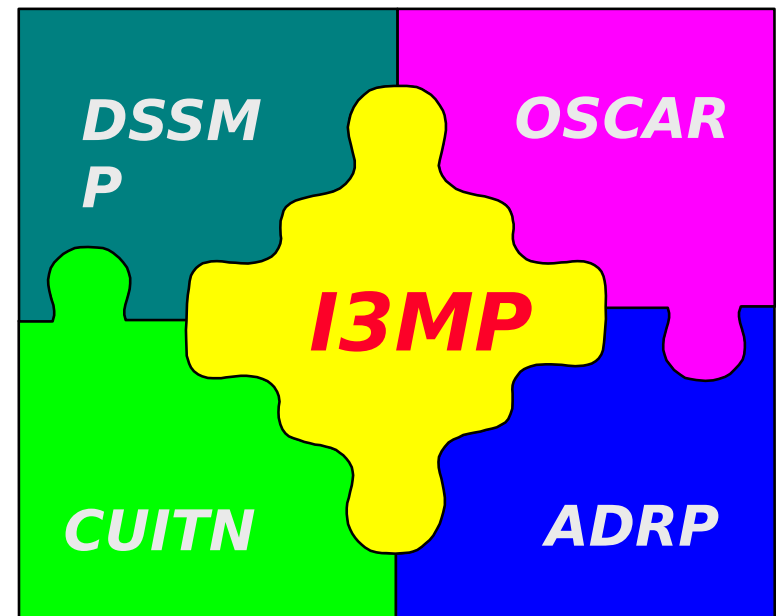
PM DCASS Provides Information



Infrastructure for the Warfighter

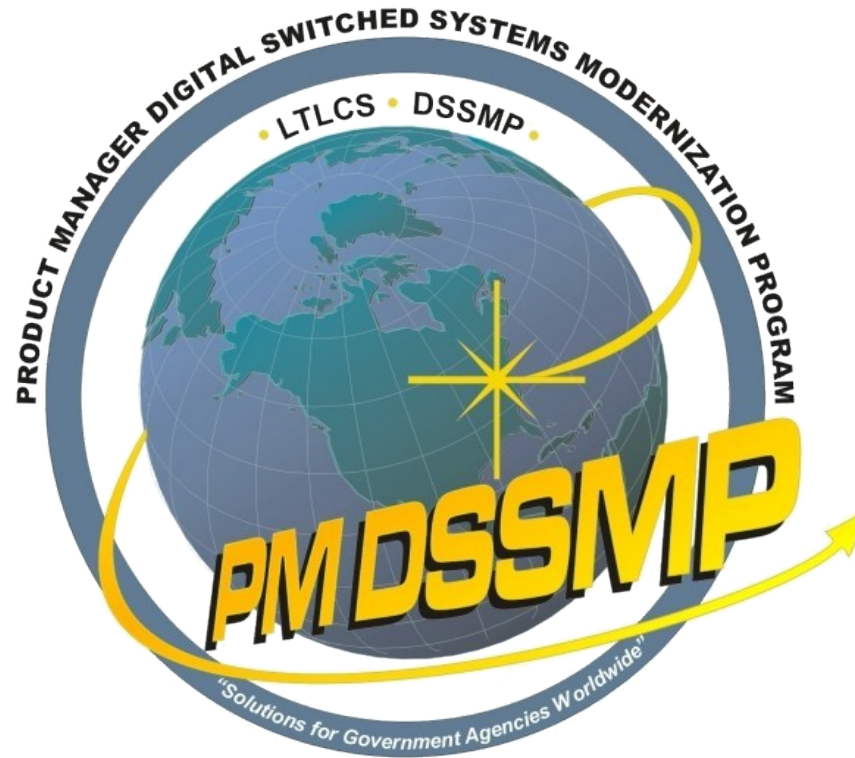


*Acquisition
Integration
System
Integration
Standardization
Coordination
Fielding
ILS*



- *Bandwidth on Demand*
- *Synchronized Solutions*
- *Leveraging the IITS*
- *Configuration Control*
- *Open Systems Architecture*

PM Digital Switched Systems Modernization Program (DSSMP)



LTC Dwayne Green
PM DSSMP

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PM DSSMP Mission



MISSION

The Digital Switched Systems Modernization Program (DSSMP) supports the Army's global enterprise by providing "state-of-the-art", commercial off-the-shelf (COTS) voice telecommunications switching systems, ancillary systems, and other services tailored to the specific needs of the individual post, camp, and station.

CHARACTERISTICS/DESCRIPTION

- Telecommunications Management Systems, ISDN, Voice Mail, Voice Over Internet Protocol (VoIP)

- "End-to-End" Voice System Installation and Sustainment

SPECIAL FEATURES

- Project Management and Vendor Coordination
- Voice and Data Convergence Platforms
- 21 broad-scoped contracts for competitive procurement
- Contracts can be used to acquire all components of Installation Information Infrastructure Modernization Program (I3MP) (outside cable plant, Gigabit Ethernet, LAN equipment, etc.)

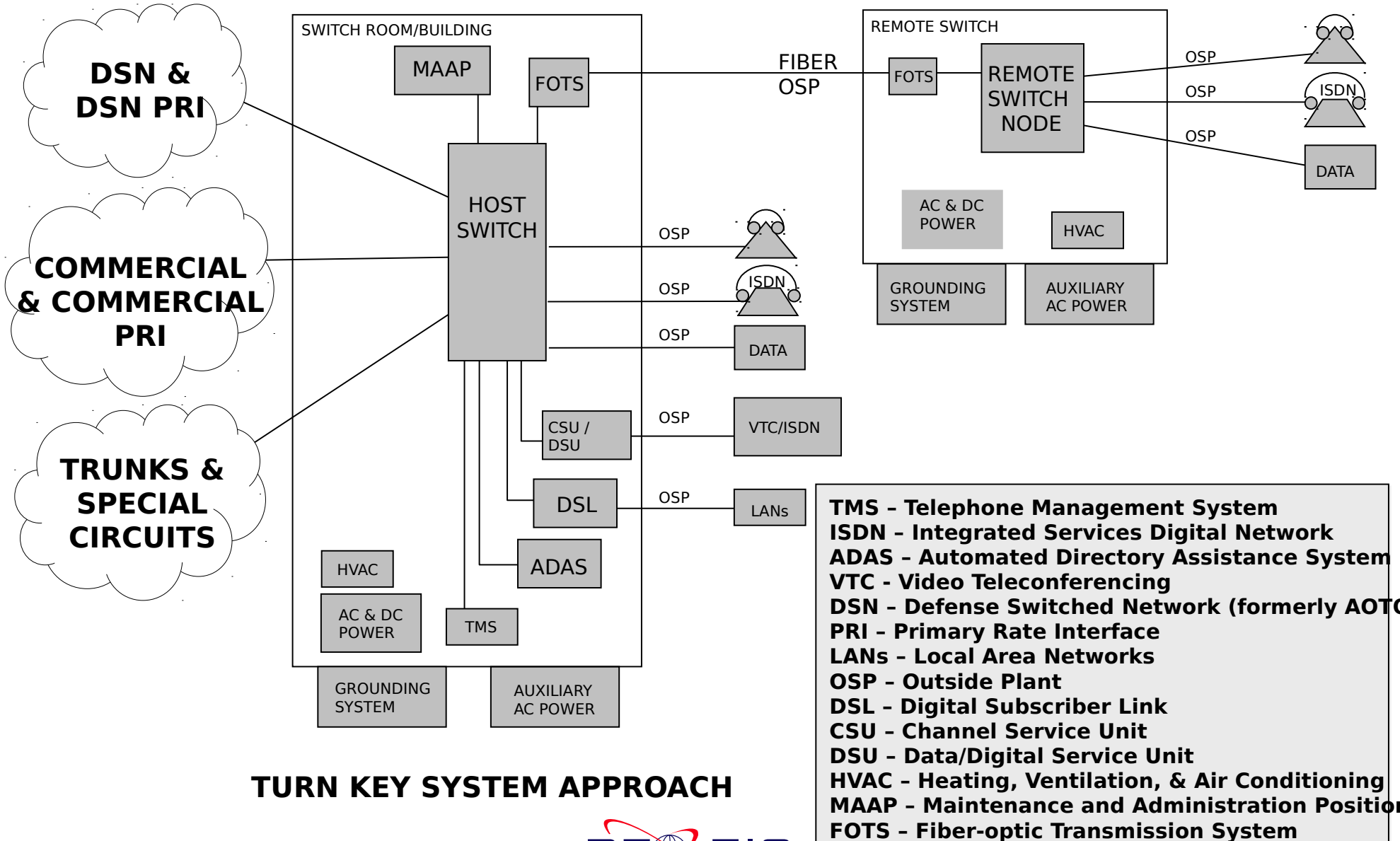
CAPABILITY / IMPROVEMENTS

- Continual competition and acquisition of current technology
- No set contract list of services, products or prices (DSSMP)
- Contract pricing updated as commercial marketplace changes (LTLCS)

CONTRACTORS

- | | | |
|---------------------|--------------------|----------------------------|
| • Harris | • Gstek | • Dynamic Concepts |
| • So. West Bell | • Lucent | • SHERIKON |
| • Halifax | • Siemens | • AMSTAR |
| • Verizon | • TechDyn | • General Dynamics WTS |
| • Telecom Italia | • NextiraOne | • Exec Security & Eng Tech |
| • Engr Pro Services | • Northrup Grumman | |

Generic Telecommunications System



DSSMP Mini-Installation Sequence List (ASL)

Sites - FY 02 / 03



FY-02

Ft. Lee, VA
 Red River Army Depot, TX
 Ft. Lewis, WA
 Ft. Stewart, GA
 Ft. Sill, OK
 Hunter AAF, GA
 Picatinny Arsenal, NJ
 Ft. Campbell, KY
 Anniston Army Depot, AL
 Scranton AAP, PA
 Ft. Bragg, NC
 Ft. Eustis, VA
 Ft. McPherson, GA
 Tooele Army Depot, UT
 Detroit Arsenal (TACOM), MI
 Presidio of Monterey, CA
 Ft. Gillem, GA
 ADAS Modernization (29 Sites)
 U.S. Army Research, Development & Acquisition Information Systems Activity (USA RDAISA), VA

FY-03

Ft. Riley, KS
 Ft. Carson, CO
 Redstone Arsenal, AL
 Ft. Polk, LA
 Ft. Bliss, TX
 Ft. Wainwright, AK
 Ft. Sam Houston, TX
 Ft. Hood, TX
 Ft. Jackson, SC
 West Point Military Reservation, NY
 Ft. Drum, NY
 McAlester AAP, OK
 Ft. Leonard Wood, MO
 Ft. Irwin, CA
 Ft. Huachuca, AZ

Blue Grass Army Depot, KY
 Ft. Rucker, AL
 Tripler Army Medical Center, HI
 Ft. Leavenworth, KS
 Tobyhanna Army Depot, PA
 Ft. Story, VA
 Ft. Richardson, AK
 Watervliet Arsenal, NY
 Carlisle Barracks, PA
 Holston AAP, TN
 Yuma Proving Ground, AZ
 White Sands Missile Range, NM
 Dugway Proving Ground, UT
 Ft. Greely, AK
 U.S. Army Topographic Engineering Center (USA TEC), VA

Notes

1. All site requirements will be satisfied assuming funding is not reduced.
2. Requirements are based on a data call where the site/MACOMs identified specific efforts to be accomplished.

PM DSSMP Summary



- Multi-million dollar program at locations worldwide
- State-of-the-Art Commercial-off-the-Shelf telephone switch technology
- Each site employs a tailored “turn key” solution with a schedule tailored to requirements

PM Defense Data Network (DDN)



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PM DDN

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CUITN / ADRP



- Common User Installation Transport Network
- Army Defense Information Systems Network Router Program

PM DDN - CUITN Mission



MISSION

The Common User Installation Transport Network (CUITN) provides an intelligent and secure data information infrastructure which supports the Army Installation Information Infrastructure Modernization Program (I3MP) initiative at posts, camps, and stations. It provides the necessary bandwidth and data-networking capabilities for digital communications as the Army undergoes Transformation. It is sufficiently robust and scalable to easily meet the installation's data requirements in support of the legacy force, the interim force, and the objective force. CUITN is a key enabler of the Army Enterprise and Army Knowledge Management. It provides the capability to transport high-volume and near real time data throughout the installation, and to the DISN in support of sustainment, contingencies, and split-based operations.

CHARACTERISTICS/DESCRIPTION

- Meets total data transport requirements at Army Installations
- Commercial-off-the-shelf (COTS)

CAPABILITY / IMPROVEMENTS

- Architecture is capable of guaranteeing 10 MB to the desktop
- IA in depth incorporated in network design

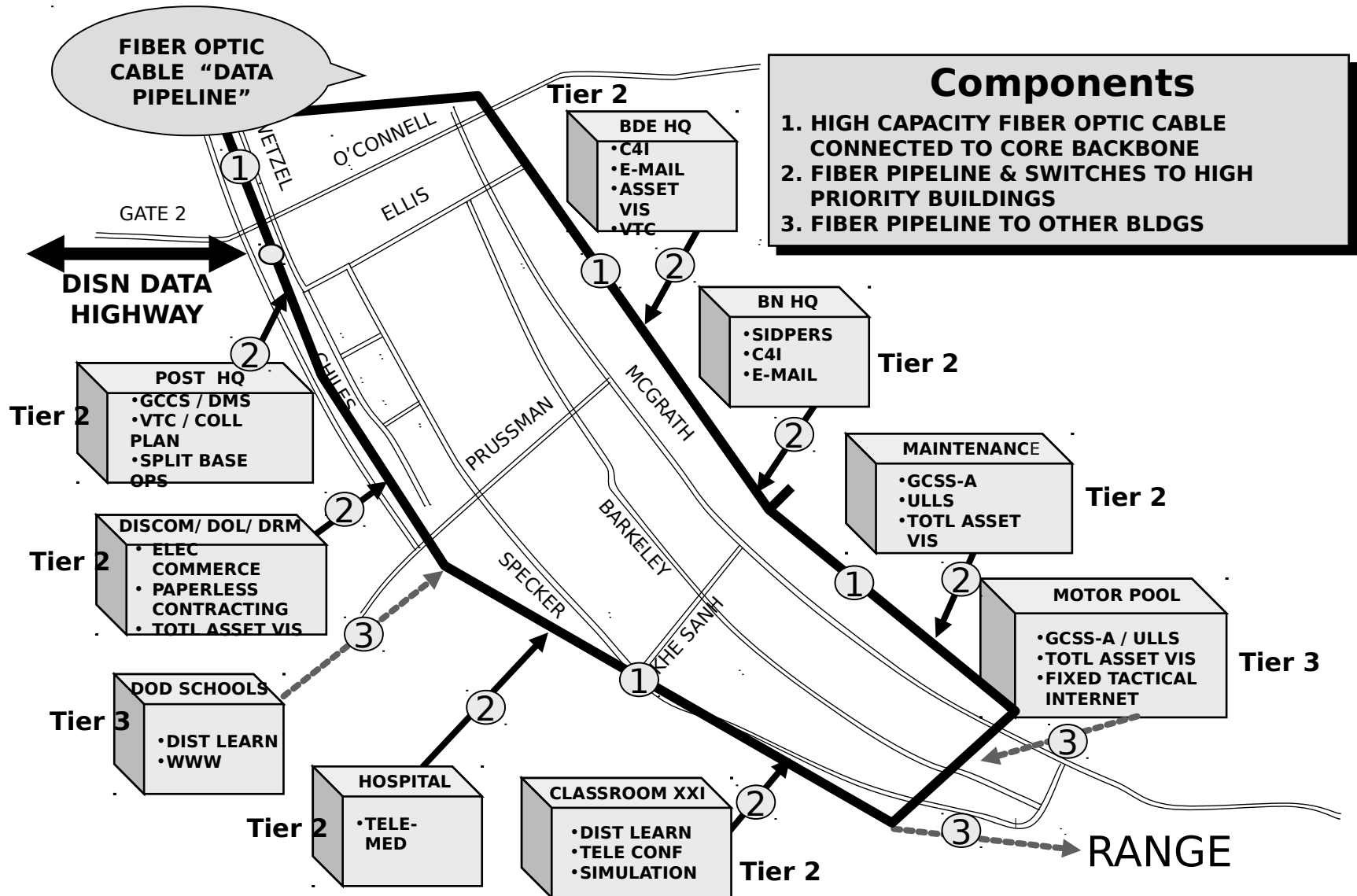
SPECIAL FEATURES

- ATM / GIG Ethernet
- Very high bandwidth
- Integrates legacy equipment into upgraded CUITN

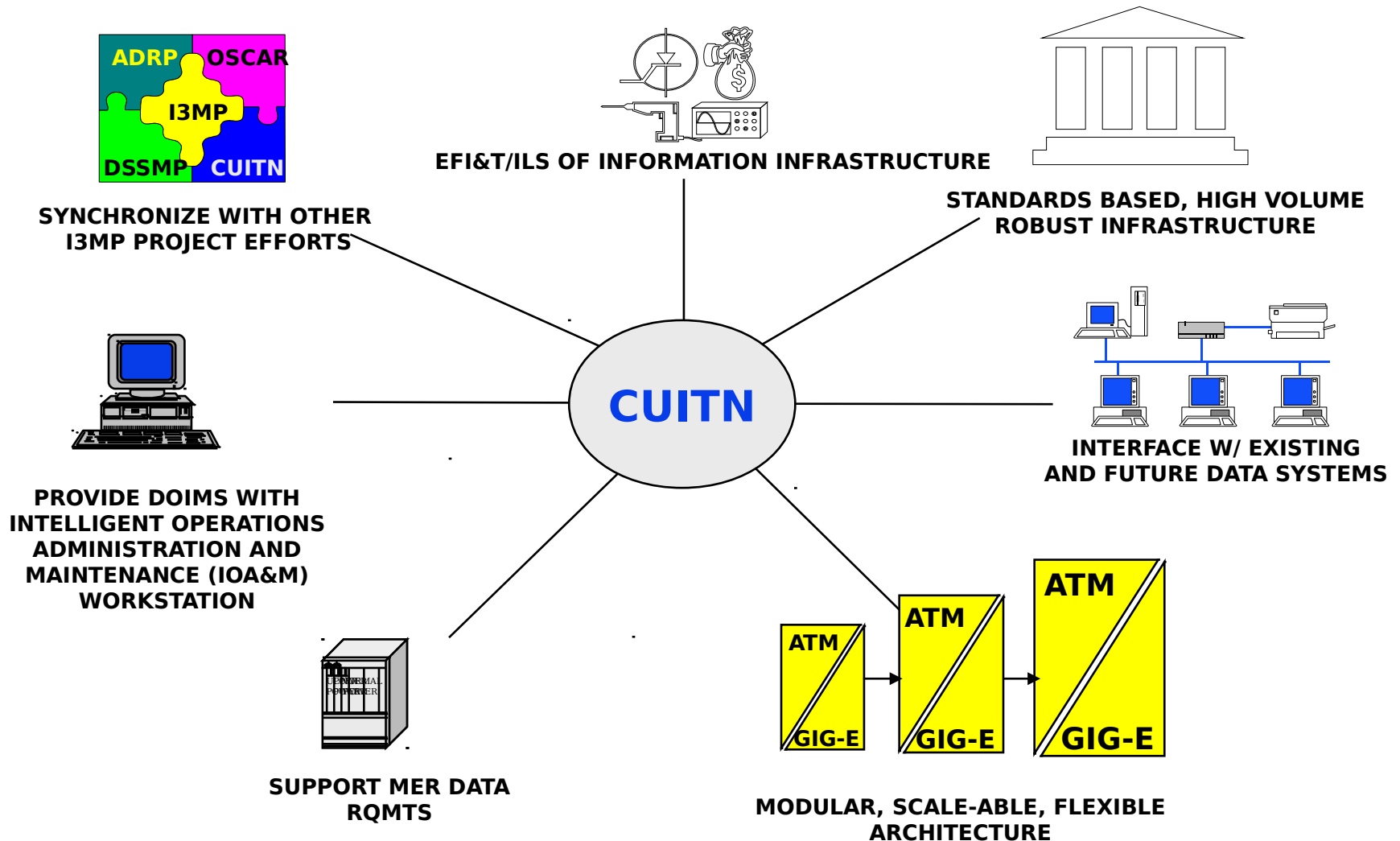
CONTRACTORS

- General Dynamics WTS
- Southwestern Bell
- Lucent Technologies
- Nortel Networks
- Verizon
- Siemens
- Cisco
- Extreme
- Foundry
- Hewlett Packard

Army Installation Information Infrastructure Architecture



CUITN Project Requirements



CUITN Contracting Approach and Vehicles



- Total EFI&T and ILS solution to single contractor
- Best value approach based on task order competition
- DSSMP - Multiple primes compete - fair opportunity

I3MP Implementation Guidance



- TIER 1: (MER Qualified) Data Network Core Backbone
- TIER 2: Mission Critical (MER Qualified)
 - **EUBs housing the following functions:**
 - E-Mail Hosts
 - Administrative Server Farm(s)
 - Key Headquarters Buildings
 - Installation
 - Commands (down to Battalion level)
 - Tenant Activities with Installation support agreements
 - Staff Elements not Collocated with their Headquarters
 - Existing networks with high bandwidth requirements

I3MP Implementation Guidance



- TIER 3: Other Data Networking Subscribers (Not MER Qualified - Used to size core backbone)
 - EUBs with any of the following valid requirements for data networking services:
 - **PCs with Network or Web Enabled Applications**
 - **Existing LAN(s)**
- TIER 4: All Other Buildings (Not MER)
 - All other EUBs Having Less than the Networking requirements Listed in TIER 3

CUITN/OSCAR Data

Infrastructure Modernization –



FY 02 / 03

FY 02

FY 03

Ft Sill
Ft Lee
Ft Sam
Houston
Ft McCoy
Ft Monmouth
Sunny Point
Ft Irwin
Ft Leonard
Wood

Ft Rucker
Ft Jackson
Ft Belvoir
West Point
Ft Gillem
Ft Huachuca
Ft Meade
Ft Gordon

HQ AMC
Ft McNair
Ft Myer
Yuma PG
Tobyhanna AD
Ft Detrick
Walter Reed



Army DISN Router Program

PM DDN - ADRP Mission



MISSION

The Army DISN Router Program (ADRP) provides connectivity into the Top Level Architecture (TLA) for Army sites to support I3A requirements for Installation Commanders. ADRP provides the access from the installation infrastructure to convey essential data in support of

CHARACTERISTICS/DESCRIPTION

- contingencies, and split base operations.
- Commercial-off-the-shelf (COTS)
- Provides Layer 3 switches, web cache engines, and terminal servers for dial-up users to Army sites world wide
- Provides two-year warranty on all equipment fielded and provides equipment training for system administrators

SPECIAL FEATURES

- Warranty provides all software upgrades in order to keep the Army networks current and able to interface with all other networks
- Warranty provides on-line expert trouble shooting support from the manufacturer

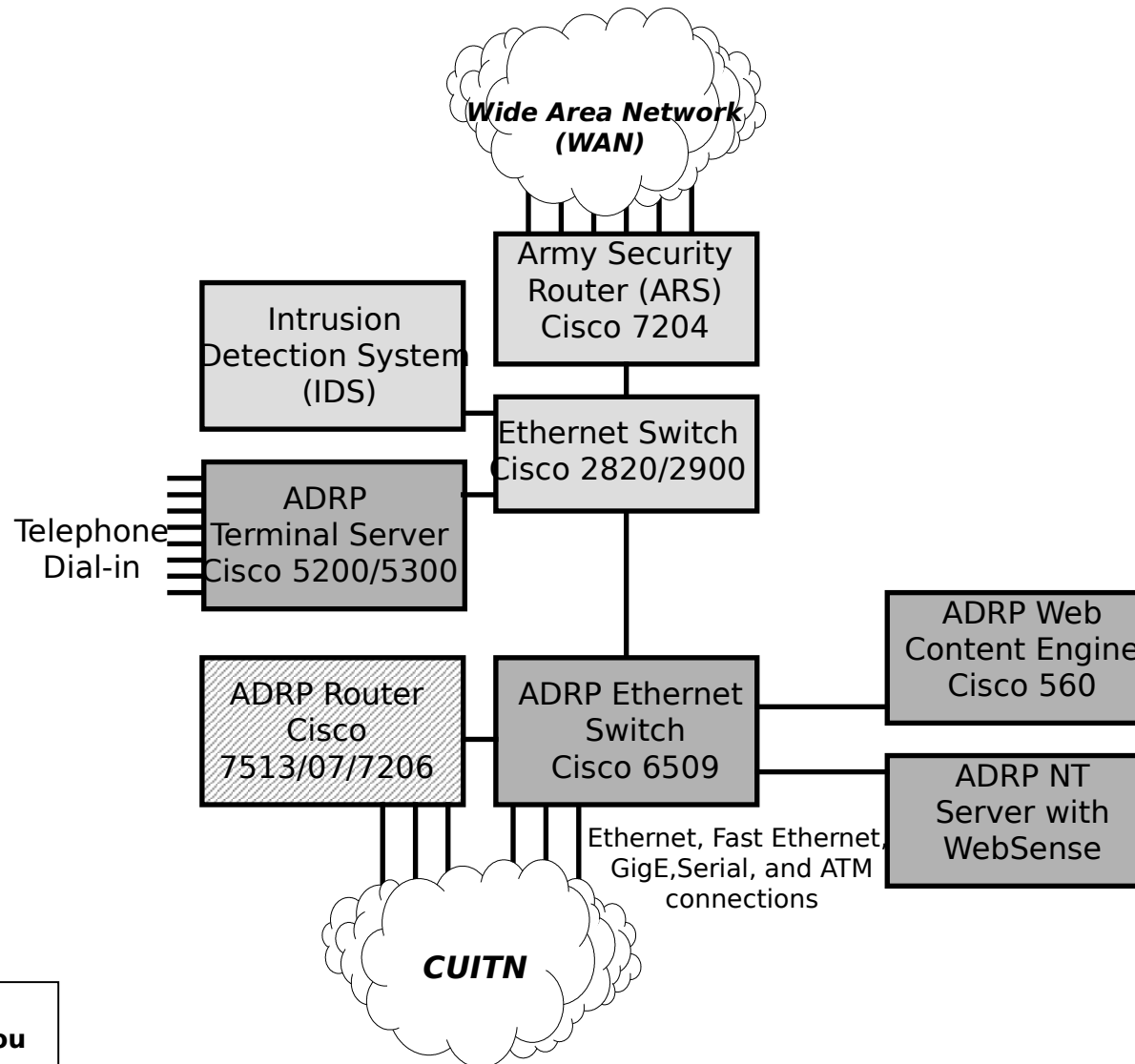
CAPABILITY / IMPROVEMENTS

- Provides Army site DOIMs excellent management of all their networks and connections
- Provides a separation for the Army between the Army Post networks and the ASC-managed TLA
- Increased bandwidth efficiency

CONTRACTORS

- Lockheed Martin Technology Services (Integrator - Lockheed bought OAO)
- Cisco Systems (Equipment Manufacturer)
- Mentor Technologies (Cisco Training Partner)

ADRP Architecture



APM Outside Cable Rehabilitation (OSCAR)



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APM OSCAR

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APM OSCAR Mission



MISSION

The Outside Cable Rehabilitation (OSCAR) program augments and supports the modernization of information transfer systems to meet the requirements of voice, data, and the single line concept. By providing the basic installation transmission connectivity from the user to the dial central office/main communications

CHARACTERISTICS/DESCRIPTION

- OSCAR supports the voice and data requirements of warfighting operations
- Provides data voice infrastructure connectivity at Army installations engaged in contingency deployments and split base operations.

CAPABILITY / IMPROVEMENTS

- Improve outside cable plants at Army Posts worldwide
- Increased bandwidth
- Improved quality of service

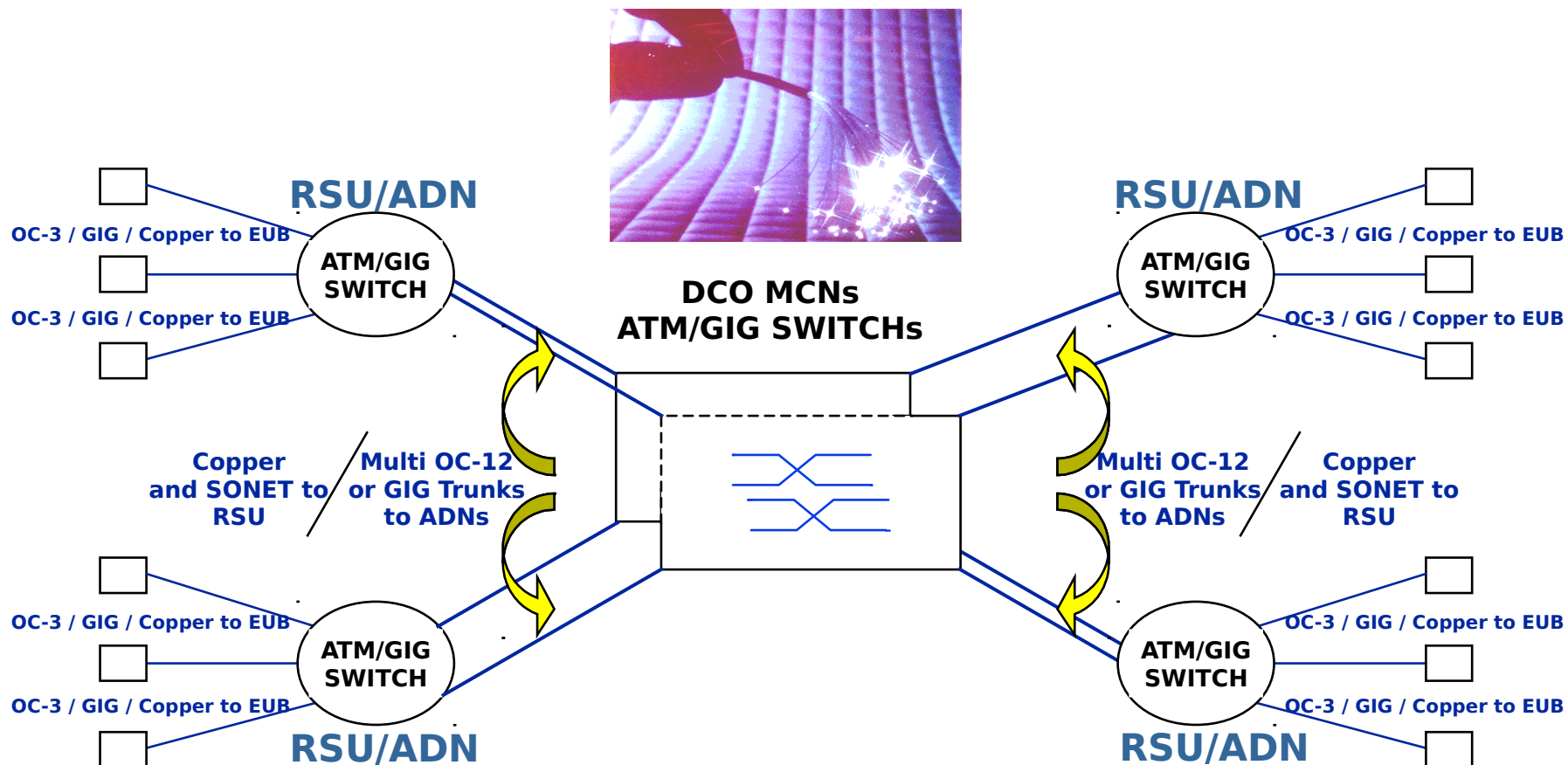
SPECIAL FEATURES

- Huts, manholes and duct
- Fiber and copper cable
- Cable repair

CONTRACTORS

- Harris
- Southwestern Bell
- Halifax
- Verizon
- Telecom Italia
- EPS
- Northrop Grumman
- General Dynamics WTS
- NextiraOne
- Lucent Technologies
- Siemens

OSCAR Connectivity



MCN - Main Communications Node
 ADN - Area Distribution Node
 EUB - End User Building
 ATM - Asynchronous Transfer Mode
 SONET - Synchronous Optical Network

OSCAR Contracting Approach and Vehicles



- Total EFI&T and ILS solution to single contractor
- Best value approach based on task order competition
- DSSMP - Multiple primes compete - fair opportunity

OSCAR Program Information



- Support PM DCASS requirements
 - Support Power Projection for Warfighters
 - Outside Plant infrastructure improvement
 - Support Program Synchronization
 - Coordination meetings with other programs to “dig up” ground once
 - Support Non-ISL Customers
- Provide Program Management (PM) Services on Reimbursable Basis to DoD Customers
 - Use DSSMP
 - Use other appropriate contracts

OSCAR/CUITN Data

Infrastructure Modernization –



FY 02 / 03

FY 02

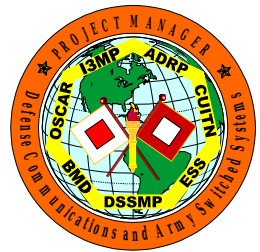
FY 03

Ft Sill
Ft Lee
Ft Sam
Houston
Ft McCoy
Ft Monmouth
Sunny Point
Ft Irwin
Ft Leonard
Wood

Ft Rucker
Ft Jackson
Ft Belvoir
West Point
Ft Gillem
Ft Huachuca
Ft Meade
Ft Gordon

HQ AMC
Ft McNair
Ft Myer
Yuma PG
Tobyhanna AD
Ft Detrick
Walter Reed

I3MP OCONUS Mission



MISSION

Acquire and deliver Common User Installation Transport Network (CUITN) and Outside Cable Rehabilitation (OSCAR) at Army posts, camps and stations in Europe, Korea and Japan IAW the DA Installation Information Infrastructure Modernization Program (I3MP) OCONUS. CUITN provides the connectivity, bandwidth and data networking capabilities for digital communications as the Army undergoes Transformation. OSCAR augments and supports the modernization of information transfer systems to meet the requirements of voice, data, and the single line concept. CUITN/OSCAR is sufficiently robust and scalable to meet the installation's data requirements in support of the legacy force, the interim force, and the objective force. They are key enablers of

the Army Enterprise and Army Knowledge Management.

CHARACTERISTICS/DESCRIPTION

- Provides data-voice infrastructure connectivity
- Transport high-volume and near real time data
- Meets total data transport requirements
- supports sustainment, contingencies, and split-based operations
- Intelligent and secure data information

CAPABILITY / IMPROVEMENTS

- Architecture capable of providing 10Mb to the desktop
- Network Security Certification and Accreditation included
- Improve outside cable (copper/fiber optic) plant
- Single line concept

SPECIAL FEATURES

- ATM / GIG Ethernet (very high capacity)
- Integrates legacy equipment into upgraded CUITN
- Hub, manholes, and duct
- Fiber and copper cable

CONTRACTORS

- Increased bandwidth and Improved quality of service
- Lucent Technologies, Greensboro NC
- Siemens, Vienna VA

I3MP OCONUS Europe – FY 02 / 03



FY 02

FY 03

Ederle Main	Grafenwoehr East Camp	Smith
Gieblestadt AAF	Barracks	
Longare JTF	Grafenwoehr Training Area	Harvey
Rhine Ordinance Barracks	Barracks	Hohenfels Training
Lerino, Torri & Villagio	Area	Larson Barracks
Panzer Kaserne GE642	Barracks	Rose
(Boblingen)	Barracks	Warner
Wiesbaden AAF	Daumerie Kaserne	
Patch Barracks	Katterback Kaserne	
Leighton Barracks	Chiveres Air Base	Storch
Panzer Kaserne GE643	Barracks	
(Kaiserslautern)	Conn Barracks	Shipton
Kelley Barracks	Barracks	

Ledward Barracks

I3MP OCONUS Pacific – FY 02 / 03



FY 02

Yongsan
Camp Red Cloud
Camp Stanley
Camp Humphreys
Camp Carroll
Camp Walker
Camp Henry/George
Camp Zama

FY 03

Camp Hovey
H220 Heliport
Camp Castle
Camp Casey
Fort Buckner
Pier#8 Pusan
Tori Station
Pusan Storage
Facility

PM DCASS Summary



- Project Manager Defense Communications and Army Switched Systems:
 - Professional organization
 - Customer focused
 - Prepared to meet all program challenges
 - Partnered with industry